

Work Order ID 86234

86234

Page 1

Item ID: D3564-5

Accept

N900040100

Setup Start ***NS1***

Revision ID:

Item Name: Wearshoe

Stop ***NS2***

Start Date: 25/06/2012 Start Qty: 20.00

20

Cust Item ID:

Required Date: 10/07/2012 Req'd Qty: 20.00

20

Customer:

Reference:

Approvals:

Process Plan: MLJ

Date: 12/06/25

Tooling:

Date:

Run Start ***NR1***

QC:

Date:

SPC (Y/N):

Date:

Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
--------------------------------	--------------------------	----------------------	---------	--------	--------------	---------------	---------------	------------------	----------------

Draw Nbr

Revision Nbr

D3564

Rev D

100

0.00

100

FLOW WATER JET

Waterjet

Memo

0.00

FLOW CNC Waterjet

1-Cut as per Dwg D3564 Dwg Rev: D Prog Rev: D 2-
Deburr if necessary

20 0 Jm 12-7-4

304 .063

110

QC2- Inspect parts off machine FAI/FAIB

0.00

110

QC

Memo

0.00

Quality Control

20 0 Jm 12-7-4

120

QC8- Inspect parts - second check

0.00

120

QC

Memo

0.00

Quality Control

57/02/04

count
(470)

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Work Order ID 86234

86234

Page 2

June-25-12 10:31:54 AM

Item ID: D3564-5

Accept

N9000040100

Setup Start *NS1*

Revision ID:

Item Name: Wearshoe

Stop *NS2*

Start Date: 25/06/2012 Start Qty: 20.00

20

Cust Item ID:

Required Date: 10/07/2012 Req'd Qty: 20.00

20

Customer:

Reference:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____

Run Start *NR1*

QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Stop *NR2*

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
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130

0.00

130

NC BRAKE

Brake NC

Memo

0.00

Brake NC

Deburr if necessary Form on Brake as per Dwg D3564 using Jigs DT8179 and DT8155 Form Joggle as per Dwg D3564 on brake using Jig DT8157

20

20

12/07/23
12/07/24

140

QC5- Inspect part completeness to step on W/O

0.00

140

QC

Memo

0.00

Quality Control

Ensure joggle as per dwg D3429

DAS
16
2-89

12/14/24

20

150

Grey Sandtex(Ref:4.3.5.6) per QSI005 4.3

0.00

150

Powdercoat

Memo

0.00

Powder Coating

START TIME:

FINISH TIME:

OVEN TEMPERATURE:

12:50

320°F

1:20

20X

12/07/24

12/12/279

W/O:		WORK ORDER CHANGES					
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Work Order ID 86234

86234

Page 3

June-25-12 10:31:54 AM

Item ID: D3564-5

Accept

N9000040100

Setup Start

NS1

Revision ID:

Item Name: Wearshoe

Stop

NS2

Start Date: 25/06/2012 Start Qty: 20.00

20

Cust Item ID:

Required Date: 10/07/2012 Req'd Qty: 20.00

20

Customer:

Reference:

Approvals:

Process Plan:

Date:

Tooling:

Date:

Run Start

NR1

QC:

Date:

SPC (Y/N):

Date:

Stop

NR2

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
--------------------------------	--------------------------	----------------------	---------	--------	--------------	---------------	---------------	------------------	----------------

160 QC3- Inspect Part Finish

0.00

160

QC Memo

0.00

Quality Control

20 0 BL 12-7-24

170 Identify as per dwg & Stock Location: Fp 1

0.00

170

Packaging Memo

0.00

Packaging

20 0 BL 12-7-24

180 QC21- Final Inspection - Work Order Release

0.00

180

QC Memo

0.00

Quality Control

ML 12/07/25
ML 12/07/25

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NOTE: Date & initial all entries

Picklist Print

June-25-12 10:31:58 AM

Page 1

Work Order ID: 86234

86234

Parent Item: D3564-5

D3564-5

Parent Item Name: Wearshoe

Start Date: 25/06/2012

Required Date: 10/07/2012

Start Qty: 20.00

Required Qty: 20.00

Comments: IPP Rev:A New Issue 07-03-08 ec
 IPP Rev:B As per Rev C 07-07-09 JLM
 IPP Rev:C As per Rev D 07-09-09 JLM Verified By:EC
 IPP Rev D added DT# 08.04.21 DD Verified by EC

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
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M304S16GA

Purchased

No

100

sf

1.5746

1.5

31.57895

M304S16GA

304/316 Sheet .063

**

Jm 12-7-4

Location

Loc Qty

Loc Code

MAT020

1.574633

121889

1.574633

122245

122245

W/O:		WORK ORDER CHANGES					
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NOTE: Date & initial all entries

DART AEROSPACE LTD		Work Order:	86234
Description: Wearshoe		Part Number:	D3564-5
Inspection Dwg: D3564	Rev: D	Page 1 of 1	

FIRST ARTICLE INSPECTION CHECKLIST

☒ First Article ☐ Prototype

Drawing Dimension	Tolerance	Actual Dimension	Accept	Reject	Method of Inspection	Comments
43.50	+/-0.030	43.50"	✓		MT	HB01
6.75	+/-0.030	6.758"	✓		✓	mmol
10.00	+/-0.030	10.002"	✓		✓	Radwgor
20.00	+/-0.030	20.00"	✓		MT	HB01
30.00	+/-0.030	30.00"	✓		MT	"
2.50	+/-0.030	2.498"	✓		✓	mmol
3.227	+/-0.010	3.225"	✓		✓	"
38.500	+/-0.010	38.500"	✓		MT	HB01
5.500	+/-0.010	5.502"	✓		✓	mmol
2.50	+/-0.030	2.504"	✓		✓	"
2.432	+/-0.010	2.438"	✓		✓	"
0.300 x 0.300	+/-0.010	0.297" x 0.301"	✓		✓	"
Ø0.188	+0.005/-0.001	0.188"	✓		✓	"
R0.375	+/-0.010	0.375"	✓		RG	"
0.063	+/-0.010	0.058"	✓		✓	mmol

Measured by: Jm	Audited by: S	Prototype Approval:	N/A
Date: 12-7-4	Date: 17/07/04	Date:	N/A

Rev	Date	Change	Revised by	Approved
A	08.01.16	New Issue	KJ/EC/DD	DD

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

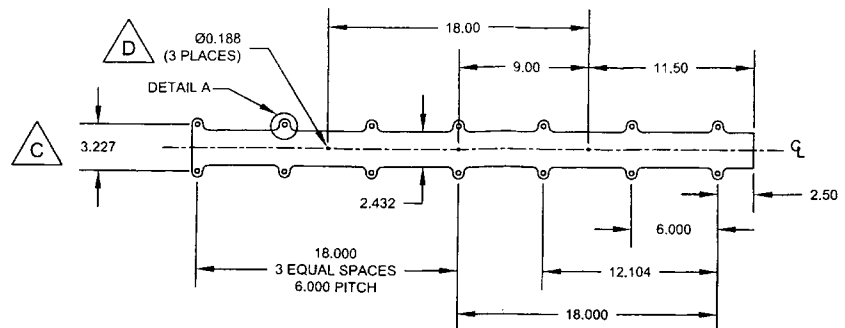
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Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

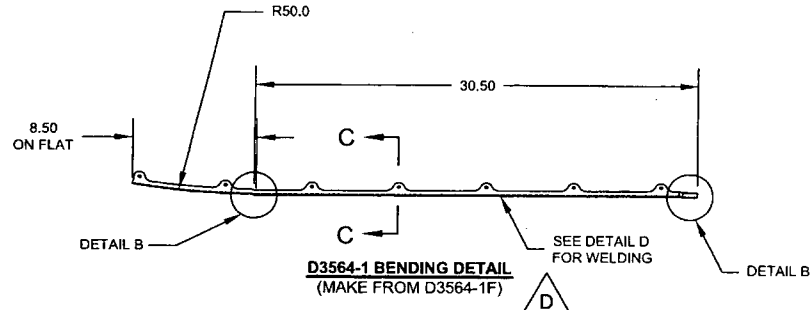
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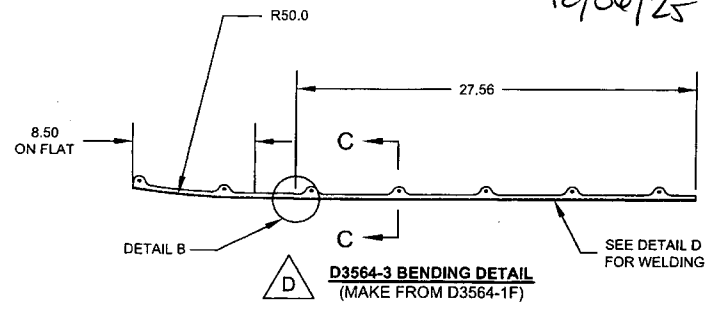
8 7 6 5 4 3 2 1



D3564-1F FLAT PATTERN



D3564-1 BENDING DETAIL
(MAKE FROM D3564-1F)



D3564-3 BENDING DETAIL
(MAKE FROM D3564-1F)

- D3564-1/-3/-5/-7/-9/-11/-13/-15 WEARPLATE NOTES:**
- 1) MATERIAL: AISI 304/316 SS SHEET PER AMS 5513 OR AMS 5524, 16 GAUGE (0.063 THICK)
(REF DART MATERIAL SPEC M304S16GA)
 - 2) FINISH: POWDER COAT GREY SANDEX (REF 4.3.5.6) PER DART QSI 005 4.3
 - 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
 - 4) UNITS: INCHES UNLESS OTHERWISE NOTED
 - 5) BREAK SHARP EDGES: 0.005 TO 0.015 MAX
 - 6) IDENTIFICATION: NONE
 - 7) WEIGHT: SEE TABLE IN ZONE A3
 - 8) WELD PER DART QSI 004
 - 9) SEE PG 3 FOR SECTIONS AND DETAILS
 - 10) PARTS ARE SYMMETRIC ABOUT C

WEIGHTS:

D3564-1	1.85 lbs
D3564-3	1.85 lbs
D3564-5	1.93 lbs
D3564-7	1.26 lbs
D3564-9	1.85 lbs
D3564-11	1.85 lbs
D3564-13	0.38 lbs
D3564-15	0.80 lbs

SHOP COPY
RETURN TO
ENGINEERING
UNCONTROLLED COPY
SUBJECT TO AMENDMENT
WITHOUT NOTICE
WORK ORDER
NO. 06234 HW
12/06/25
RELEASED
07.09.04

UNDER REVIEW
Finish change
OK 9/11/28

D	UPDATE DRAWING TEMPLATE; CHANGE ALL (TYP X PLS) TO (X PLACES); PG1 A8, PG3 B5,C5: ADD D3564-15; PG1 B6,B3: D3564-1/-3 WAS ONE FIGURE; PG2 A7,A3: D3564-9/-11 WAS ONE FIGURE; PG2 A7,A3: D3564-9/-11 WAS ON PG1; PG3 B8,C8: D3564-13 WAS ON PG2; PG3 D2: WELDING DETAIL WAS ON PG1 PG3 A5.7,B2: RELOCATE DETAILS AND SECTION; PG3 A5.7,B2: INCREASE DETAIL AND SECTION SIZE	CB	07.08.21
C	MOVE TAB OUTBOARD, DETAIL A	PH	07.04.17
B	ADD AMS 5513 AND AMS 5524	PH	07.03.20
A	NEW ISSUE	PH	06.12.18
REV.	DESCRIPTION	BY	DATE
DESIGN	PH		
DRAWN	CB		
CHECKED	PH		
MFG. APPR.	PH		
APPROVED	PH		
DE APPR.	PH		
DATE	07.08.21		

DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWING NO. D3564	REV. D
TITLE WEARSHOE	SCALE 1:8

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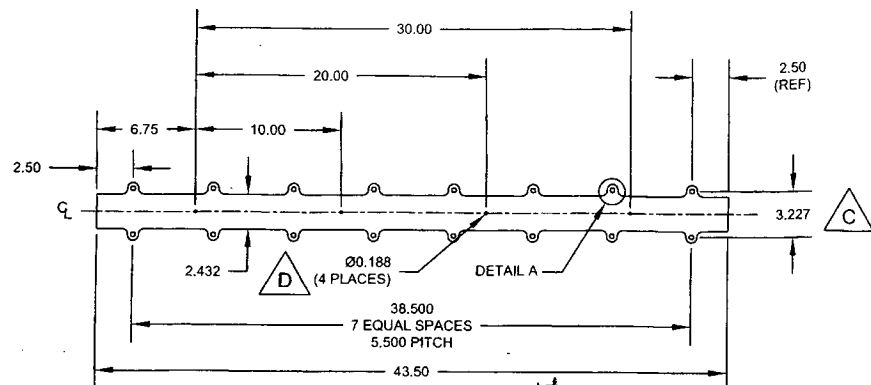
Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

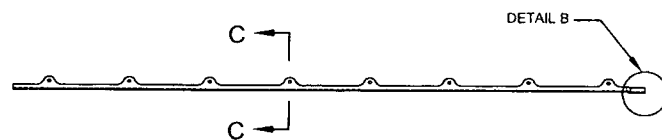
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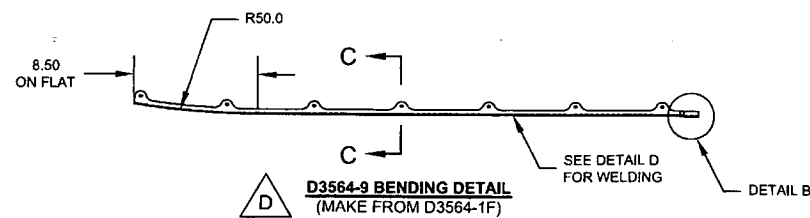
8 7 6 5 4 3 2 1



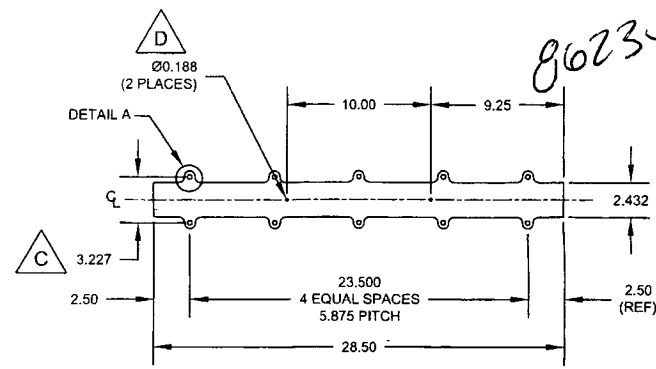
D3564-5F FLAT PATTERN



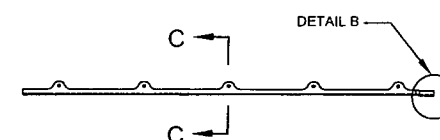
D3564-5 BENDING DETAIL
(MAKE D3564-5 FROM D3564-5F)



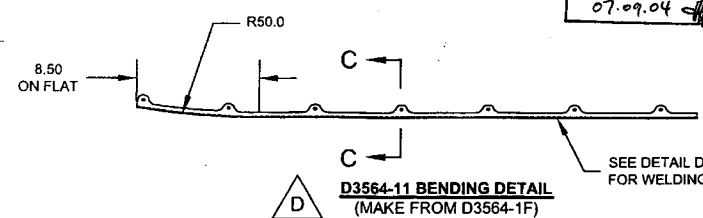
D3564-9 BENDING DETAIL
(MAKE FROM D3564-1F)



D3564-7F FLAT PATTERN



D3564-7 BENDING DETAIL
(MAKE D3564-7 FROM D3564-7F)



D3564-11 BENDING DETAIL
(MAKE FROM D3564-1F)

RELEASED
07.09.04

UNDER REVIEW
OK CP 11.7.78

DESIGN	PH	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN	CB		
CHECKED	PH	DRAWING NO.	REV. D
MFG. APPR.	PH	D3564	SHEET 2 OF 3
APPROVED	PH	TITLE	SCALE
DE APPR.	PH	WEARSHOE	1:8
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8 7 6 5 4 3 2 1

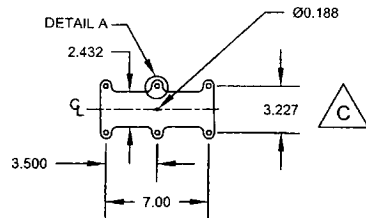
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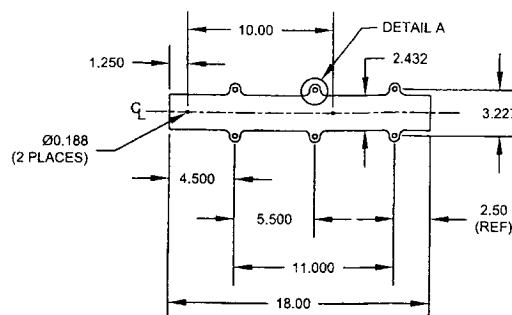
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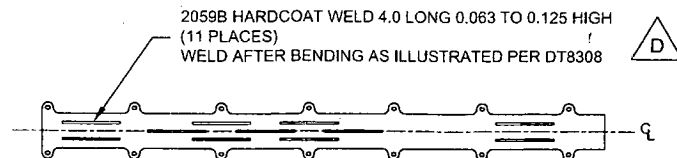
NOTE: Date & initial all entries



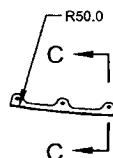
D3564-13F FLAT PATTERN



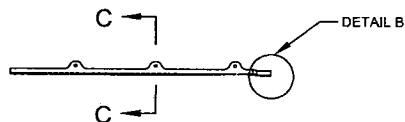
D3564-15F FLAT PATTERN



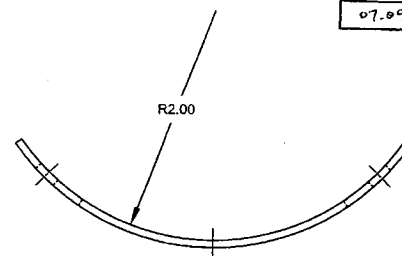
DETAIL D
(D3564-1/-3/-9/-11 WELDING DETAIL)



D3564-13 BENDING DETAIL
(MAKE D3564-13 FROM D3564-13F)



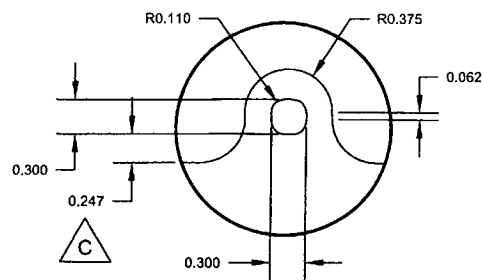
D3564-15 BENDING DETAIL
(MAKE D3564-15 FROM D3564-15F)



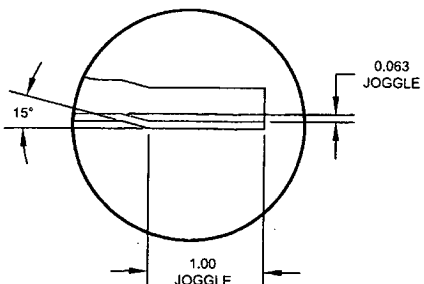
SECTION C-C
SCALE 1:1

RELEASED
07.09.04

UNDER REVIEW
OK 07.11.28



DETAIL A
SCALE 1:1



DETAIL B
SCALE 1:1

DESIGN	PH	DART AEROSPACE LTD	
DRAWN	CB	HAWKESBURY, ONTARIO, CANADA	
CHECKED	PH	DRAWING NO.	REV. D
MFG. APPR.	PH	D3564	SHEET 3 OF 3
APPROVED	PH	TITLE	SCALE
DE APPR.	PH	WEARSHOE	1:8
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